



SHEET 1 OF 1

Form PTO 143a  
(Modified)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY DOCKET NO.  
241990US77DIVSERIAL NO.  
10/657,280

## LIST OF REFERENCES CITED BY APPLICANT

APPLICANT  
William M. CANFIELDFILING DATE  
September 9, 2003GROUP  
1652

## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL |    | DOCUMENT<br>NUMBER | DATE     | NAME     | CLASS | SUB<br>CLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|----|--------------------|----------|----------|-------|--------------|-------------------------------|
|                     | AA | 6,537,785          | 03-25-03 | CANFIELD | 424   | 9461         |                               |
|                     | AB | 6,534,300          | 03-18-03 | CANFIELD | 435   | 195          |                               |
|                     | AC | 6,642,038          | 11-04-03 | CANFIELD | 435   | 195          |                               |
|                     | AD |                    |          |          |       |              |                               |
|                     | AE |                    |          |          |       |              |                               |
|                     | AF |                    |          |          |       |              |                               |
|                     | AG |                    |          |          |       |              |                               |
|                     | AH |                    |          |          |       |              |                               |
|                     | AI |                    |          |          |       |              |                               |
|                     | AJ |                    |          |          |       |              |                               |
|                     | AK |                    |          |          |       |              |                               |
|                     | AL |                    |          |          |       |              |                               |
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## FOREIGN PATENT DOCUMENTS

|  |    | DOCUMENT<br>NUMBER | DATE | COUNTRY | TRANSLATION |    |
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|  |    |                    |      |         | YES         | NO |
|  | AO |                    |      |         |             |    |
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|  | AU |                    |      |         |             |    |
|  | AV |                    |      |         |             |    |

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

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|  | AW |  |
|  | AX |  |
|  | AY |  |
|  | AZ |  |

☐ Additional References sheet(s) attached

Examiner

T. Saidha

Date Considered 12/10/04

\*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



SHEET 1 OF 2

Form PTO 1449  
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|                     | AA |                    |      |      |       |              |                               |
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|  | AU |                    |      |         |             |    |
|  | AV |                    |      |         |             |    |

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

|     |    |  |
|-----|----|--|
| 108 | AW | Sasaki, K., et al., "Expression cloning of a novel alpha 2,3-sialyltransferase using lectin resistance selection. J. Biol. Chem., October 1993, Vol. 268, No. 30, pages 22782-22787                                      |
|     | AX | Michel, B., et al., "Selection of an expression host for human glucocerebrosidase: importance of host cell glycosylation. UCLA Symposia on Molecular and Cellular Biology, 1990, Vol. 111 (Glycobiology), pages 159-172. |
|     | AY | Stanley, P., et al., "Selection and characterization of eight phenotypically distinct lines of lectin-resistant chinese hamster ovary cells. Cell, October 1975, Vol. 6, No. 2, pages 121-128.                           |
| 108 | AZ | Zhao, K.W., et al., "Purification and Characterization of Human Lymphoblast N-acetylglucosamine-1-phosphotransferase. Glycobiol. 1992, Vol. 2, No. 2, pages 119-125  |

☐ Additional References sheet(s) attached

T. Sarda 12/10/04



SHEET 2 OF 2

Form PTO 1449  
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PATENT AND TRADEMARK OFFICEATTY DOCKET NO.  
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## U.S. PATENT DOCUMENTS

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|---------------------|----|--------------------|------|------|-------|--------------|-------------------------------|
|                     | BA |                    |      |      |       |              |                               |
|                     | BB |                    |      |      |       |              |                               |
|                     | BC |                    |      |      |       |              |                               |
|                     | BD |                    |      |      |       |              |                               |
|                     | BE |                    |      |      |       |              |                               |
|                     | BF |                    |      |      |       |              |                               |
|                     | BG |                    |      |      |       |              |                               |
|                     | BH |                    |      |      |       |              |                               |
|                     | BI |                    |      |      |       |              |                               |
|                     | BJ |                    |      |      |       |              |                               |
|                     | BK |                    |      |      |       |              |                               |
|                     | BL |                    |      |      |       |              |                               |
|                     | BM |                    |      |      |       |              |                               |
|                     | BN |                    |      |      |       |              |                               |

## FOREIGN PATENT DOCUMENTS

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|  |    |                    |      |         | YES         | NO |
|  | BO |                    |      |         |             |    |
|  | BP |                    |      |         |             |    |
|  | BQ |                    |      |         |             |    |
|  | BR |                    |      |         |             |    |
|  | BS |                    |      |         |             |    |
|  | BT |                    |      |         |             |    |
|  | BU |                    |      |         |             |    |
|  | BV |                    |      |         |             |    |

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

|     |    |  |
|-----|----|--|
| JP8 | BW | Mullis, K.G., Purification and Kinetic Parameters of Bovine Liver N-acetylglucosamine-1-phosphodiester-alpha-N-acetylglucosaminidase. J. Biol. Chem., January 1994, Vol. 269, No. 3, pages 1718-1726.    |
|     | BX | Do, H. et al., "Human Mannose 6-Phosphate-uncovering Enzyme is Synthesized as a Proenzyme that is Activated by the Endoprotease Furin. August 2002, J. Biol. Chem., Vol. 277, No. 33, pages 29737-29744. |
|     | BY | Lee, W.S., "Multiple Signals Regulate Trafficking of the Mannose 6-Phosphate-uncovering Enzyme", February 2002, Vol. 277, No. 5, pages 3544-3551   |
| JP  | BZ |  |

☐ Additional References sheet(s) attached

Examiner

T. Savdha

Date Considered 12/10/04

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Form PTO 1449  
(Modified)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY DOCKET NO.

241990US77DIV

SERIAL NO.

NEW APPLICATION

LIST OF REFERENCES CITED BY APPLICANT

APPLICANT

WILLIAM M. CANFIELD

FILING DATE

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## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL |    | DOCUMENT<br>NUMBER | DATE     | NAME              | CLASS | SUB<br>CLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|----|--------------------|----------|-------------------|-------|--------------|-------------------------------|
| JCB                 | AA | 5,968,502          | 10/19/99 | TRECO ET AL       | 424   | 93.21        |                               |
|                     | AB | 5,055,401          | 10/08/91 | LILJESTROEM ET AL | 435   | 91.41        |                               |
|                     | AC | 5,202,253          | 04/13/93 | ESMON ET AL       | 435   | 331          |                               |
|                     | AD | 5,929,304          | 07/27/99 | RADIN ET AL       | 800   | 288          |                               |
|                     | AE | 5,580,757          | 12/03/96 | DESNICK ET AL     | 435   | 69.7         |                               |
|                     | AF | 5,356,804          | 10/18/94 | DESNICK ET AL     | 435   | 208          |                               |
| JCB                 | AG | 5,401,650          | 03/28/95 | DESNICK ET AL     | 435   | 208          |                               |
|                     | AH |                    |          |                   |       |              |                               |
|                     | AI |                    |          |                   |       |              |                               |
|                     | AJ |                    |          |                   |       |              |                               |
|                     | AK |                    |          |                   |       |              |                               |
|                     | AL |                    |          |                   |       |              |                               |
|                     | AM |                    |          |                   |       |              |                               |
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|  | AU |                    |      |         |                       |
|  | AV |                    |      |         |                       |

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

|     |    |   |
|-----|----|---|
| JCB | AW | SLY, "THE MISSING LINK IN LYSOSOMAL ENZYME TARGETING", THE JOURNAL OF CLINICAL INVESTIGATION, VOL. 105, NO. 5, PAGES 563-564, MARCH 2000  |
|     | AX | RAAS-ROTHSCHILD ET AL, "MOLECULAR BASIS OF VARIANT PSEUDO-HURLER POLYDYSTROPHY (MUCOLIPIDOSIS IIIC)", THE JOURNAL OF CLINICAL INVESTIGATION, VOL. 105, NO. 5, PP. 673-681, MARCH 2000   |
|     | AY | BAO ET AL, "BOVINE UDP-N-ACETYLGLUCOSAMINE: LYSOSOMAL-ENZYME N-ACETYLGLUCOSAMINE-1-PHOSPHOTRANSFERASE", THE JOURNAL OF BIOLOGICAL CHEMISTRY, VOL. 271, NO. 49, PP. 31446-31451, DECEMBER 6, 1996                              |
| JCB | AZ | KORNFELD, "PURIFICATION AND MULTIMERIC STRUCTURE OF BOVINE N-ACETYLGLUCOSAMINE-1-PHOSPHODIESTER $\alpha$ -N-ACETYLGLUCOSAMINIDASE", THE JOURNAL OF BIOLOGICAL CHEMISTRY, VOL. 273, NO. 36, PP. 23203-23210, SEPTEMBER 4, 1998 |

Examiner

T. Saichha

Date Considered

12/10/2004

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|--|---------------------------------|---|--------------------|----------------------------------|-----------------------------|------------------------------------|-------------------------------|--|
| LIST OF REFERENCES CITED BY APPLICANT  |                                 |   |                    | APPLICANT<br>William M. CANFIELD |                             |                                    |                               |  |
|  |                                 |   |                    | FILING DATE<br>Herewith          |                             | GROUP                              |                               |  |
| <b>U.S. PATENT DOCUMENTS</b>   |                                 |   |                    |                                  |                             |                                    |                               |  |
| EXAMINER<br>INITIAL  |                                 | DOCUMENT<br>NUMBER  | DATE               | NAME                             | CLASS                       | SUB<br>CLASS                       | FILING DATE<br>IF APPROPRIATE |  |
| Jk   | BA                              | 6,118,045   | 09/12/045          | REUSER ET AL                     | 800                         | 14                                 |                               |  |
|  | BB                              | 5,939,279   | 08/17/99           | SMITH                            | 435                         | 7-32                               |                               |  |
|  | BC                              | 5,932,211   | 08/03/99           | WILSON ET AL                     | 424                         | 94.6                               |                               |  |
|  | BD                              | 5,929,036   | 07/27/99           | McEVER                           | 514                         | 25                                 |                               |  |
|  | BE                              | 5,928,928   | 07/27/99           | AERTS                            | 435                         | 201                                |                               |  |
|  | BF                              | 5,919,913   | 07/06/99           | NUYENS ET AL                     | 530                         | 395                                |                               |  |
|  | BG                              | 5,919,690   | 07/06/99           | KNAP ET AL                       | 435                         | 208                                |                               |  |
|  | BH                              | 5,917,122   | 06/29/99           | BYRNE                            | 800                         | 18                                 |                               |  |
|  | BI                              | 5,916,911   | 06/29/99           | SHAYMAN EET AL                   | 514                         | 428                                |                               |  |
|  | BJ                              | 5,916,870   | 06/29/99           | LEE ET AL                        | 514                         | 2                                  |                               |  |
|  | BK                              | 5,914,231   | 06/22/99           | HENNINK ET AL                    | 435                         | 6                                  |                               |  |
|  | BL                              | 5,912,146   | 06/15/99           | NISHIMURA ET AL                  | 435                         | 91.1                               |                               |  |
|  | BM                              | 5,911,704   | 06/15/99           | HUMES                            | 604                         | 93.1                               |                               |  |
|  | BN                              | 5,906,817   | 05/25/99           | MOULLIER ET AL                   | 424                         | 93.21                              |                               |  |
|  | <b>FOREIGN PATENT DOCUMENTS</b> |   |                    |                                  |                             |                                    |                               |  |
|  |                                 |   | DOCUMENT<br>NUMBER | DATE                             | COUNTRY                     | TRANSLATION<br>YES NO              |                               |  |
|  | BO                              |   |                    |                                  |                             |                                    |                               |  |
|  | BP                              |   |                    |                                  |                             |                                    |                               |  |
|  | BQ                              |   |                    |                                  |                             |                                    |                               |  |
|  | BR                              |   |                    |                                  |                             |                                    |                               |  |
|  | BS                              |   |                    |                                  |                             |                                    |                               |  |
|  | BT                              |   |                    |                                  |                             |                                    |                               |  |
|  | BU                              |   |                    |                                  |                             |                                    |                               |  |
|  | BV                              |   |                    |                                  |                             |                                    |                               |  |
| <b>OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)</b> |                                 |   |                    |                                  |                             |                                    |                               |  |
| Jk   | BW                              | Alan D. Elbein et al, "KIFUNENSINE, A POTENT INHIBITOR OF THE GLYCOPROTEIN PROCESSING MANNOSIDASE I", The Journal of Biological Chemistry, Vol. 265, No. 26, Issue of September 15, pp. 15599-15605, 1990.  |                    |                                  |                             |                                    |                               |  |
| Jk   | BX                              | Karen Gheesling MULLIS, et al., "Characterization and Immunolocalization of Bovine N-Acetylglucosamine-1-phosphodiester $\alpha$ -N-Acetylglucosaminidase", The Journal of Biological Chemistry, Vol. 269, No. 3, Issue of January 21, pp.1727-1733, (1994) |                    |                                  |                             |                                    |                               |  |
| Jk   | BY                              | Jin Kyu LEE, et al., "Purification and Characterization of Human Serum N-Acetylglucosamine-1-phosphodiester $\alpha$ -N-Acetylglucosaminidase", Archives of Biochemistry and Biophysics, Vol. 319, No. 2, June 1, pp. 413-425, (1995)                       |                    |                                  |                             |                                    |                               |  |
|  | BZ                              |   |                    |                                  |                             |                                    |                               |  |
| Examiner<br>T. Saedha  |                                 |   |                    |                                  | Date Considered<br>12/10/04 |                                    |                               |  |

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|--|---------------------------------|---|----------|----------------------------------|-----------------------|------------------------------------|-------------------------------|
| LIST OF REFERENCES CITED BY APPLICANT  |                                 |   |          | APPLICANT<br>William M. CANFIELD |                       |                                    |                               |
|  |                                 |   |          | FILING DATE<br>Herewith          |                       | GROUP                              |                               |
| <b>U.S. PATENT DOCUMENTS</b>   |                                 |   |          |                                  |                       |                                    |                               |
| EXAMINER<br>INITIAL  |                                 | DOCUMENT<br>NUMBER  | DATE     | NAME                             | CLASS                 | SUB<br>CLASS                       | FILING DATE<br>IF APPROPRIATE |
| JLB  | CA                              | 5,895,833   | 04/20/99 | BERG                             | 800                   | 14                                 |                               |
|  | CB                              | 5,879,937   | 03/09/99 | RONCAROLO                        | 435                   | 325                                |                               |
|  | CC                              | 5,874,297   | 02/23/99 | WU ET AL                         | 435                   | 320.1                              |                               |
|  | CD                              | 5,871,946   | 02/16/99 | LUCAS ET AL                      | 435                   | 18                                 |                               |
|  | CE                              | 5,861,491   | 01/19/99 | NUIJENS ET AL                    | 530                   | 417                                |                               |
|  | CF                              | 5,858,755   | 01/12/99 | LOWE                             | 435                   | 198                                |                               |
|  | CG                              | 5,858,744   | 01/12/00 | BAUM ET AL                       | 435                   | 456                                |                               |
|  | CH                              | 5,858,351   | 01/12/99 | PODSAKOFF ET AL                  | 424                   | 93.2                               |                               |
|  | CI                              | 5,854,207   | 12/29/98 | LEE ET AL                        | 514                   | 2                                  |                               |
|  | CJ                              | 5,851,782   | 12/22/98 | HANNUN ET AL                     | 435                   | 7.71                               |                               |
|  | CK                              | 5,849,885   | 12/15/98 | NUYENS ET AL                     | 530                   | 416                                |                               |
|  | CL                              | 5,840,578   | 11/24/98 | DESNICK                          | 435                   | 325                                |                               |
|  | CM                              | 5,830,916   | 11/03/98 | HANNUM ET AL                     | 514                   | 625                                |                               |
|  | CN                              | 5,830,850   | 11/03/98 | GELB ET AL                       | 514                   | 2                                  |                               |
|  | <b>FOREIGN PATENT DOCUMENTS</b> |   |          |                                  |                       |                                    |                               |
|  |                                 | DOCUMENT<br>NUMBER  | DATE     | COUNTRY                          | TRANSLATION<br>YES NO |                                    |                               |
|  | CO                              |   |          |                                  |                       |                                    |                               |
|  | CP                              |   |          |                                  |                       |                                    |                               |
|  | CQ                              |   |          |                                  |                       |                                    |                               |
|  | CR                              |   |          |                                  |                       |                                    |                               |
|  | CS                              |   |          |                                  |                       |                                    |                               |
|  | CT                              |   |          |                                  |                       |                                    |                               |
|  | CU                              |   |          |                                  |                       |                                    |                               |
|  | CV                              |   |          |                                  |                       |                                    |                               |
| <b>OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)</b>   |                                 |   |          |                                  |                       |                                    |                               |
| JLB  | CW                              | R. O. BRADY, et al., "Modifying Exogenous Glucocerebrosidase for Effective Replacement Therapy in Gaucher", J. Inher. Metab. Dis., Vol. 17, (1994), pp. 510-519   |          |                                  |                       |                                    |                               |
|  | CX                              | Emil D. KAKKIS, et al., "Overexpression of the Human Lysosomal Enzyme $\alpha$ -L-Iduronidase in Chinese Hamster Ovary Cells", Protein Expression and Purification, Vol. 5, (1994), pp.225-232  |          |                                  |                       |                                    |                               |
|  | CY                              | Ke-Wei ZHAO, et al., "Carbohydrate Structures of Recombinant Human $\alpha$ -L-Iduronidase Secreted by Chinese Hamster Ovary Cells", The Journal of Biological Chemistry, Vol. 272, No. 36, Issue of September 5, pp.22758-22765 (1997) |          |                                  |                       |                                    |                               |
|  | CZ                              | Robin J. ZIEGLER, et al., "Correction of Enzymatic and Lysosomal Storage Defects in Fabry Mice by Adenovirus-Mediated Gene Transfer", Human Gene Therapy, Vol. 10, pp.1667-1682, (July 1, 1999)   |          |                                  |                       |                                    |                               |
| Examiner<br>T. Sardha  |                                 |   |          | Date Considered 12/10/04         |                       |                                    |                               |
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| LIST OF REFERENCES CITED BY APPLICANT                                   |                          |   |                    | APPLICANT<br>William M. CANFIELD |                             |                                    |                               |  |
|   |                          |   |                    | FILING DATE<br>Herewith          |                             | GROUP<br>1652                      |                               |  |
| U.S. PATENT DOCUMENTS   |                          |   |                    |                                  |                             |                                    |                               |  |
| EXAMINER<br>INITIAL   |                          | DOCUMENT<br>NUMBER  | DATE               | NAME                             | CLASS                       | SUB<br>CLASS                       | FILING DATE<br>IF APPROPRIATE |  |
| JCS   | DA                       | 5,830,711   | 11/03/98           | BARANY ET AL                     | 435                         | 91.1                               |                               |  |
|   | DB                       | 5,807,943   | 09/15/98           | LEE ET AL                        | 526                         | 338.2                              |                               |  |
|   | DC                       | 5,798,448   | 08/25/98           | CARAS ET AL                      | 530                         | 387.1                              |                               |  |
|   | DD                       | 5,798,239   | 08/25/98           | WILSON ET AL                     | 435                         | 183                                |                               |  |
|   | DE                       | 5,792,647   | 08/11/98           | ROSEMAN ET AL                    | 435                         | 252.3                              |                               |  |
|   | DF                       | 5,773,236   | 06/30/98           | DIWU ET AL                       | 435                         | 15                                 |                               |  |
|   | DG                       | 5,759,775   | 06/02/98           | CARAS ET AL                      | 435                         | 6                                  |                               |  |
|   | DH                       | 5,750,172   | 05/12/98           | MEADE ET AL                      | 426                         | 580                                |                               |  |
|   | DI                       | 5,741,957   | 04/21/98           | DEBOER ET AL                     | 800                         | 7                                  |                               |  |
|   | DJ                       | 5,736,360   | 04/07/98           | GAULTON ET AL                    | 435                         | 69.1                               |                               |  |
|   | DK                       | 5,728,381   | 03/17/98           | WILSON ET AL                     | 424                         | 94.6                               |                               |  |
|   | DL                       | 5,723,585   | 03/03/98           | BAKER ET AL                      | 530                         | 413                                |                               |  |
|   | DM                       | 5,721,367   | 02/24/98           | KAY ET AL                        | 800                         | 18                                 |                               |  |
|   | DN                       | 5,719,031   | 02/17/98           | HAUGLAND ET AL                   | 435                         | 7.4                                |                               |  |
|   | FOREIGN PATENT DOCUMENTS |   |                    |                                  |                             |                                    |                               |  |
|   |                          |   | DOCUMENT<br>NUMBER | DATE                             | COUNTRY                     | TRANSLATION<br>YES NO              |                               |  |
|   |                          |   |                    |                                  |                             |                                    |                               |  |
|   | DO                       |   |                    |                                  |                             |                                    |                               |  |
|   | DQ                       |   |                    |                                  |                             |                                    |                               |  |
|   | DR                       |   |                    |                                  |                             |                                    |                               |  |
|   | DS                       |   |                    |                                  |                             |                                    |                               |  |
|   | DT                       |   |                    |                                  |                             |                                    |                               |  |
|   | DU                       |   |                    |                                  |                             |                                    |                               |  |
|   | DV                       |   |                    |                                  |                             |                                    |                               |  |
| OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.) |                          |   |                    |                                  |                             |                                    |                               |  |
| JCS   | DW                       | Huaichang SUN, et al., "Retrovirus Vector-Mediated Correction and Cross-Correction of Lysosomal $\alpha$ -Mannosidase Deficiency in Human and Feline Fibroblasts", Human Gene Therapy, Vol. 10, pp. 1311-1319, (May 20, 1999) |                    |                                  |                             |                                    |                               |  |
| JCS   | DX                       | Aji REUSER, et al., "Lysosomal storage diseases: cellular pathology, clinical and genetic heterogeneity, therapy", Ann Biol Clin, (1994), Vol. 52, pp. 721-728  |                    |                                  |                             |                                    |                               |  |
|   | DY                       |   |                    |                                  |                             |                                    |                               |  |
|   | DZ                       |   |                    |                                  |                             |                                    |                               |  |
| Examiner<br>T. Savdha   |                          |   |                    |                                  | Date Considered<br>12/10/04 |                                    |                               |  |

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|---|--------------------------|--|--------------------|----------------------------------|-----------------------------|------------------------------------|-------------------------------|--|
| LIST OF REFERENCES CITED BY APPLICANT                                   |                          |  |                    | APPLICANT<br>William M. CANFIELD |                             |                                    |                               |  |
|   |                          |  |                    | FILING DATE<br>Herewith          |                             | GROUP                              |                               |  |
| U.S. PATENT DOCUMENTS   |                          |  |                    |                                  |                             |                                    |                               |  |
| EXAMINER<br>INITIAL   |                          | DOCUMENT<br>NUMBER   | DATE               | NAME                             | CLASS                       | SUB<br>CLASS                       | FILING DATE<br>IF APPROPRIATE |  |
| JLB   | EA                       | 5,716,614  | 02/10/98           | KATZ ET AL                       | 424                         | 94.3                               |                               |  |
|   | EB                       | 5,707,865  | 01/13/98           | KOHN ET AL                       | 435                         | 325                                |                               |  |
|   | EC                       | 5,704,910  | 06/06/98           | HUMES                            | 604                         | 502                                |                               |  |
|   | ED                       | 5,696,001  | 12/09/97           | HABENSTEIN                       | 436                         | 578                                |                               |  |
|   | EE                       | 5,693,622  | 12/02/97           | WOLFF ET AL                      | 514                         | 44                                 |                               |  |
|   | EF                       | 5,691,181  | 11/25/97           | LOWE                             | 435                         | 325                                |                               |  |
|   | EG                       | 5,686,240  | 11/11/97           | SCHUCHMAN ET AL                  | 435                         | 6                                  |                               |  |
|   | EH                       | 5,679,545  | 10/21/97           | BAKER ET AL                      | 435                         | 69.1                               |                               |  |
|   | EI                       | 5,665,366  | 09/09/97           | RAWLINGS ET AL                   | 424                         | 401                                |                               |  |
|   | EJ                       | 5,663,254  | 09/02/97           | LEE ET AL                        | 526                         | 238.2                              |                               |  |
|   | EK                       | 5,663,076  | 09/02/97           | ROSTOKER ET AL                   | 438                         | 14                                 |                               |  |
|   | EL                       | 5,658,567  | 08/19/97           | CALHOUN ET AL                    | 424                         | 94.61                              |                               |  |
|   | EM                       | 5,648,335  | 07/15/97           | LEWIS ET AL                      | 514                         | 12                                 |                               |  |
|   | EN                       | 5,648,229  | 07/15/97           | HABENSTEIN                       | 435                         | 18                                 |                               |  |
|   | FOREIGN PATENT DOCUMENTS |  |                    |                                  |                             |                                    |                               |  |
|   |                          |  | DOCUMENT<br>NUMBER | DATE                             | COUNTRY                     | TRANSLATION<br>YES NO              |                               |  |
|   | EO                       |  |                    |                                  |                             |                                    |                               |  |
|   | EP                       |  |                    |                                  |                             |                                    |                               |  |
|   | EQ                       |  |                    |                                  |                             |                                    |                               |  |
|   | ER                       |  |                    |                                  |                             |                                    |                               |  |
|   | ES                       |  |                    |                                  |                             |                                    |                               |  |
|   | ET                       |  |                    |                                  |                             |                                    |                               |  |
|   | EU                       |  |                    |                                  |                             |                                    |                               |  |
|   | EV                       |  |                    |                                  |                             |                                    |                               |  |
| OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.) |                          |  |                    |                                  |                             |                                    |                               |  |
|   | EW                       |  |                    |                                  |                             |                                    |                               |  |
|   | EX                       |  |                    |                                  |                             |                                    |                               |  |
|   | EY                       |  |                    |                                  |                             |                                    |                               |  |
|   | EZ                       |  |                    |                                  |                             |                                    |                               |  |
| Examiner<br>T. Soudha   |                          |  |                    |                                  | Date Considered<br>12/10/04 |                                    |                               |  |

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| Form PTO 1449<br>(Modified)  |                          | U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE |          | ATTY DOCKET NO.<br>241990US77DIV |                                 | SERIAL NO.<br>New U.S. Application |                               |
| LIST OF REFERENCES CITED BY APPLICANT  |                          |  |          | APPLICANT<br>William M. CANFIELD |                                 |                                    |                               |
|  |                          |  |          | FILING DATE<br>Herewith          |                                 | GROUP<br>1652                      |                               |
| U.S. PATENT DOCUMENTS  |                          |  |          |                                  |                                 |                                    |                               |
| EXAMINER<br>INITIAL  |                          | DOCUMENT<br>NUMBER   | DATE     | NAME                             | CLASS                           | SUB<br>CLASS                       | FILING DATE<br>IF APPROPRIATE |
| JG   | FA                       | 5,639,939  | 06/17/97 | McCUNE, III                      | 800                             | 11                                 |                               |
|  | FB                       | 5,639,607  | 06/17/97 | DESNICK ET AL                    | 435                             | 6                                  |                               |
|  | FC                       | 5,633,261  | 05/27/97 | DIME                             | 514                             | 299                                |                               |
|  | FD                       | 5,633,228  | 05/27/97 | LEWIS ET AL                      | 514                             | 12                                 |                               |
|  | FE                       | 5,627,171  | 05/06/97 | PARK ET AL                       | 514                             | 114                                |                               |
|  | FF                       | 5,627,073  | 05/06/97 | BAKER ET AL                      | 435                             | 331                                |                               |
|  | FG                       | 5,624,806  | 04/29/97 | BAKER ET AL                      | 435                             | 7.1                                |                               |
|  | FH                       | 5,621,106  | 04/15/97 | DIME                             | 546                             | 183                                |                               |
|  | FI                       | 5,612,206  | 03/18/97 | VALERIO ET AL                    | 435                             | 456                                |                               |
|  | FJ                       | 5,585,247  | 12/17/96 | HABENSTEIN                       | 435                             | 18                                 |                               |
|  | FK                       | 5,583,160  | 12/10/96 | IGARASHI ET AL                   | 514                             | 669                                |                               |
|  | FL                       | 5,578,479  | 11/26/96 | LADERMAN ET AL                   | 435                             | 202                                |                               |
|  | FM                       | 5,576,424  | 11/19/96 | MAO ET AL                        | 536                             | 17.9                               |                               |
|  | FN                       | 5,571,893  | 11/05/96 | BAKER ET AL                      | 530                             | 350                                |                               |
|  | FOREIGN PATENT DOCUMENTS |  |          |                                  |                                 |                                    |                               |
|  |                          | DOCUMENT<br>NUMBER   | DATE     | COUNTRY                          | TRANSLATION<br>YES NO           |                                    |                               |
|  | FO                       |  |          |                                  |                                 |                                    |                               |
|  | FP                       |  |          |                                  |                                 |                                    |                               |
|  | FQ                       |  |          |                                  |                                 |                                    |                               |
|  | FR                       |  |          |                                  |                                 |                                    |                               |
|  | FS                       |  |          |                                  |                                 |                                    |                               |
|  | FT                       |  |          |                                  |                                 |                                    |                               |
|  | FU                       |  |          |                                  |                                 |                                    |                               |
|  | FV                       |  |          |                                  |                                 |                                    |                               |
| OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)  |                          |  |          |                                  |                                 |                                    |                               |
|  | FW                       |  |          |                                  |                                 |                                    |                               |
|  | FX                       |  |          |                                  |                                 |                                    |                               |
|  | FY                       |  |          |                                  |                                 |                                    |                               |
|  | FZ                       |  |          |                                  |                                 |                                    |                               |
| Examiner <i>T. Sawdha</i>  |                          |  |          |                                  | Date Considered <i>12/10/04</i> |                                    |                               |
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| U.S. PATENT DOCUMENTS  |                          |  |          |                                  |                                 |                                    |                               |
| EXAMINER<br>INITIAL  |                          | DOCUMENT<br>NUMBER   | DATE     | NAME                             | CLASS                           | SUB<br>CLASS                       | FILING DATE<br>IF APPROPRIATE |
| Jka  | GA                       | 5,571,675  | 11/05/96 | BAKER ET AL                      | 435                             | 6                                  |                               |
|  | GB                       | 5,569,648  | 10/29/96 | LEWIS ET AL                      | 514                             | 12                                 |                               |
|  | GC                       | 5,565,362  | 10/15/96 | ROSEN                            | 435                             | 320.1                              |                               |
|  | GD                       | 5,554,366  | 09/10/96 | RAWLINGS ET AL                   | 424                             | 78.03                              |                               |
|  | GE                       | 5,545,402  | 08/13/96 | WATKINSON                        | 424                             | 94.63                              |                               |
|  | GF                       | 5,534,615  | 07/09/96 | BAKER ET AL                      | 530                             | 350                                |                               |
|  | GG                       | 5,512,471  | 04/30/96 | SMITH                            | 435                             | 208                                |                               |
|  | GH                       | 5,501,957  | 03/26/96 | DENNIS ET AL                     | 435                             | 15                                 |                               |
|  | GI                       | 5,494,810  | 02/27/96 | BARANY ET AL                     | 435                             | 91.52                              |                               |
|  | GJ                       | 5,491,075  | 02/13/96 | DESNICK ET AL                    | 435                             | 69.7                               |                               |
|  | GK                       | 5,475,095  | 12/12/95 | MYEROWITZ                        | 536                             | 23.1                               |                               |
|  | GL                       | 5,466,809  | 11/14/95 | DIME                             | 546                             | 183                                |                               |
|  | GM                       | 5,449,604  | 09/12/95 | SCHELLENBERG ET AL               | 435                             | 6                                  |                               |
|  | GN                       | 5,443,986  | 08/22/95 | HAUGHLAND ET AL                  | 435                             | 4                                  |                               |
|  | FOREIGN PATENT DOCUMENTS |  |          |                                  |                                 |                                    |                               |
|  |                          | DOCUMENT<br>NUMBER   | DATE     | COUNTRY                          | TRANSLATION<br>YES NO           |                                    |                               |
|  | GO                       |  |          |                                  |                                 |                                    |                               |
|  | GP                       |  |          |                                  |                                 |                                    |                               |
|  | GQ                       |  |          |                                  |                                 |                                    |                               |
|  | GR                       |  |          |                                  |                                 |                                    |                               |
|  | GS                       |  |          |                                  |                                 |                                    |                               |
|  | GT                       |  |          |                                  |                                 |                                    |                               |
|  | GU                       |  |          |                                  |                                 |                                    |                               |
|  | GV                       |  |          |                                  |                                 |                                    |                               |
| OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)  |                          |  |          |                                  |                                 |                                    |                               |
|  | GW                       |  |          |                                  |                                 |                                    |                               |
|  | GX                       |  |          |                                  |                                 |                                    |                               |
|  | GY                       |  |          |                                  |                                 |                                    |                               |
|  | GZ                       |  |          |                                  |                                 |                                    |                               |
| Examiner <i>T. Saichha</i>   |                          |  |          |                                  | Date Considered <i>12/10/04</i> |                                    |                               |
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(Modified)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY DOCKET NO.  
241990US77DIVSERIAL NO.  
New U.S. Application

LIST OF REFERENCES CITED BY APPLICANT

APPLICANT

William M. CANFIELD

FILING DATE

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1652

## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL |    | DOCUMENT<br>NUMBER | DATE     | NAME             | CLASS | SUB<br>CLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|----|--------------------|----------|------------------|-------|--------------|-------------------------------|
| J/K                 | HA | 5,439,935          | 08/08/95 | RAWLINGS ET AL   | 514   | 451          |                               |
|                     | HB | 5,433,946          | 07/18/95 | ALLEN, JR. ET AL | 424   | 94.3         |                               |
|                     | HC | 5,420,112          | 05/30/95 | LEWIS ET AL      | 514   | 12           |                               |
|                     | HD | 5,405,751          | 04/11/95 | RONCAROLO        | 435   | 7.24         |                               |
|                     | HE | 5,382,524          | 01/17/95 | DESNICK ET AL    | 435   | 200          |                               |
|                     | HF | 5,366,883          | 11/22/94 | ASADA ET AL      | 435   | 202          |                               |
|                     | HG | 5,362,628          | 11/08/94 | HAUGLAND         | 435   | 18           |                               |
|                     | HH | 5,344,352          | 09/06/94 | HORNE ET AL      | 445   | 24           |                               |
|                     | HI | 5,316,906          | 05/31/94 | HAUGLAND ET AL   | 435   | 4            |                               |
|                     | HJ | 5,310,646          | 05/10/94 | WHITLEY          | 435   | 4            |                               |
|                     | HK | 5,296,365          | 03/22/94 | OVERBEEKE ET EA  | 435   | 208          |                               |
|                     | HL | 5,281,394          | 01/25/94 | HOLUB            | 422   | 65           |                               |
|                     | HM | 5,260,447          | 11/09/93 | NAKAJIMA ET AL   | 548   | 222          |                               |
| J/K                 | HN | 5,242,805          | 09/07/93 | NALEWAY ET AL    | 435   | 18           |                               |

## FOREIGN PATENT DOCUMENTS

|  |    | DOCUMENT<br>NUMBER | DATE | COUNTRY | TRANSLATION<br>YES NO |
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|  | HO |                    |      |         |                       |
|  | HP |                    |      |         |                       |
|  | HQ |                    |      |         |                       |
|  | HR |                    |      |         |                       |
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|  | HT |                    |      |         |                       |
|  | HU |                    |      |         |                       |
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## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

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Examiner

T. Saadha

Date Considered

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PATENT AND TRADEMARK OFFICE

ATTY DOCKET NO.

241990US77DIV

SERIAL NO.

New U.S. Application

## LIST OF REFERENCES CITED BY APPLICANT

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## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL |    | DOCUMENT<br>NUMBER | DATE     | NAME              | CLASS | SUB<br>CLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|----|--------------------|----------|-------------------|-------|--------------|-------------------------------|
| JL                  | IA | 5,217,865          | 01/08/93 | MYEROWITZ         | 435   | 6            |                               |
|                     | IB | 5,208,148          | 05/04/93 | HAUGLAND ET AL    | 435   | 14           |                               |
|                     | IC | 5,205,917          | 04/27/93 | KLOCK, JR.        | 436   | 586          |                               |
|                     | ID | 5,179,023          | 01/12/93 | CALHOUN ET AL     | 435   | 235.1        |                               |
|                     | IE | 5,166,320          | 11/24/92 | WU ET AL          | 530   | 395          |                               |
|                     | IF | 5,143,841          | 09/01/92 | HIRABAYSHI ET AL  | 435   | 227          |                               |
|                     | IG | 5,126,247          | 06/30/92 | PALMER ET AL      | 435   | 25           |                               |
|                     | IH | 5,089,392          | 02/18/92 | MILLER ET AL      | 435   | 21           |                               |
|                     | II | 5,802,778          | 01/21/92 | OVERBEEKE ET AL   | 52    | 36.2         |                               |
|                     | IJ | 5,077,200          | 12/31/91 | HABENSTEIN        | 435   | 14           |                               |
|                     | IK | 5,075,231          | 12/24/91 | MOREAU ET AL      | 435   | 198          |                               |
|                     | IL | 5,061,025          | 10/29/91 | MATTES ET AL      | 359   | 18           |                               |
|                     | IM | 5,060,428          | 10/29/91 | ARTHUR, JR. ET AL | 52    | 125.6        |                               |
| JL                  | IN | 5,015,470          | 05/14/91 | GIBSON            | 514   | 2            |                               |

## FOREIGN PATENT DOCUMENTS

|  |    | DOCUMENT<br>NUMBER | DATE | COUNTRY | TRANSLATION |    |
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|  |    |                    |      |         | YES         | NO |
|  | IO |                    |      |         |             |    |
|  | IP |                    |      |         |             |    |
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|  | IR |                    |      |         |             |    |
|  | IS |                    |      |         |             |    |
|  | IT |                    |      |         |             |    |
|  | IU |                    |      |         |             |    |
|  | IV |                    |      |         |             |    |

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

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Examiner

T. Soudha

Date Considered

12/10/04

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| <b>U.S. PATENT DOCUMENTS</b>  |                                 |  |          |                                  |                       |                                    |                               |
| EXAMINER<br>INITIAL   |                                 | DOCUMENT<br>NUMBER   | DATE     | NAME                             | CLASS                 | SUB<br>CLASS                       | FILING DATE<br>IF APPROPRIATE |
| JLB   | JA                              | 5,001,072  | 03/19/91 | OLSON                            | 436                   | 5                                  |                               |
|   | JB                              | 4,997,760  | 03/05/91 | HIRABAYASHI ET AL                | 435                   | 227                                |                               |
|   | JC                              | 4,987,223  | 01/22/91 | CHOAY ET AL                      | 536                   | 17.7                               |                               |
|   | JD                              | 4,986,274  | 01/22/91 | STEPHENS                         | 600                   | 443                                |                               |
|   | JE                              | 4,981,801  | 01/01/91 | SUZUKI ET AL                     | 435                   | 286.1                              |                               |
|   | JF                              | 4,975,441  | 12/04/90 | GIBSON                           | 514                   | 328                                |                               |
|   | JG                              | 4,866,042  | 09/12/89 | NEUWELT                          | 424                   | 93.2                               |                               |
|   | JH                              | 4,851,390  | 07/25/89 | MORISHIGE                        | 514                   | 44                                 |                               |
|   | JI                              | 4,798,169  | 01/17/89 | ROSEN ET AL                      | 119                   | 223                                |                               |
|   | JJ                              | 4,749,570  | 06/07/88 | POZNANSKY                        | 435                   | 188                                |                               |
|   | JK                              | 4,659,817  | 04/21/87 | GALLOP ET AL                     | 540                   | 541                                |                               |
|   | JL                              | 4,639,420  | 01/27/87 | SCHAFFNER                        | 435                   | 7.1                                |                               |
|   | JM                              | 4,615,884  | 10/07/86 | HARSHMAN                         | 424                   | 237.1                              |                               |
|   | JN                              | 4,595,015  | 06/17/86 | JANSEN ET AL                     | 600                   | 526                                |                               |
|   | <b>FOREIGN PATENT DOCUMENTS</b> |  |          |                                  |                       |                                    |                               |
|   |                                 | DOCUMENT<br>NUMBER   | DATE     | COUNTRY                          | TRANSLATION<br>YES NO |                                    |                               |
|   | JO                              |  |          |                                  |                       |                                    |                               |
|   | JP                              |  |          |                                  |                       |                                    |                               |
|   | JQ                              |  |          |                                  |                       |                                    |                               |
|   | JR                              |  |          |                                  |                       |                                    |                               |
|   | JS                              |  |          |                                  |                       |                                    |                               |
|   | JT                              |  |          |                                  |                       |                                    |                               |
|   | JU                              |  |          |                                  |                       |                                    |                               |
|   | JV                              |  |          |                                  |                       |                                    |                               |
| <b>OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)</b>  |                                 |  |          |                                  |                       |                                    |                               |
|   | JW                              |  |          |                                  |                       |                                    |                               |
|   | JX                              |  |          |                                  |                       |                                    |                               |
|   | JY                              |  |          |                                  |                       |                                    |                               |
|   | JZ                              |  |          |                                  |                       |                                    |                               |
| Examiner<br>T. Saidha   |                                 |  |          | Date Considered<br>12/10/04      |                       |                                    |                               |
| <small>*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small> |                                 |  |          |                                  |                       |                                    |                               |

Form PTO 1449  
(Modified)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY DOCKET NO.  
241990US77DIVSERIAL NO.  
New U.S. Application

## LIST OF REFERENCES CITED BY APPLICANT

APPLICANT

William M. CANFIELD

FILING DATE  
Herewith

GROUP 1652

## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL |    | DOCUMENT<br>NUMBER | DATE     | NAME               | CLASS | SUB<br>CLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|----|--------------------|----------|--------------------|-------|--------------|-------------------------------|
| JK                  | KA | 4,496,722          | 01/29/85 | GALLOP ET AL       | 544   | 69           |                               |
|                     | KB | 4,492,761          | 01/08/85 | DURACK             | 436   | 519          |                               |
|                     | KC | 4,474,770          | 10/02/84 | LORMEAU ET AL      | 514   | 56           |                               |
|                     | KD | 4,452,794          | 06/05/84 | KORT ET AL         | 514   | 179          |                               |
|                     | KE | 4,433,946          | 02/28/84 | CHRISTIANSON ET AL | 406   | 43           |                               |
|                     | KF | 4,431,737          | 02/14/84 | OLIVIERI ET AL     | 435   | 448          |                               |
|                     | KG | 4,401,758          | 08/30/83 | LORMEAU ET AL      | 435   | 84           |                               |
|                     | KH | 4,401,662          | 08/30/83 | LORMEAU ET AL      | 514   | 56           |                               |
|                     | KI | 4,332,894          | 06/01/82 | WHISTLER           | 435   | 99           |                               |
|                     | KJ | 4,328,215          | 05/04/82 | BUEDING            | 514   | 29           |                               |
|                     | KK | 4,195,126          | 12/23/80 | HALL               | 435   | 11           |                               |
|                     | KL | 4,156,013          | 03/22/79 | BRUINVELS ET AL    | 514   | 567          |                               |
|                     | KM | 4,140,107          | 02/20/79 | LANCEE ET AL       | 600   | 443          |                               |
| JK                  | KN | 3,972,777          | 08/03/76 | YAMADA ET AL       | 435   | 208          |                               |

## FOREIGN PATENT DOCUMENTS

|  |    | DOCUMENT<br>NUMBER | DATE | COUNTRY | TRANSLATION<br>YES NO |
|--|----|--------------------|------|---------|-----------------------|
|  | KO |                    |      |         |                       |
|  | KP |                    |      |         |                       |
|  | KQ |                    |      |         |                       |
|  | KR |                    |      |         |                       |
|  | KS |                    |      |         |                       |
|  | KT |                    |      |         |                       |
|  | KU |                    |      |         |                       |
|  | KV |                    |      |         |                       |

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

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Examiner

S. T. Saadha

Date Considered

12/10/04

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|--|----|--|----------|----------------------------------|-----------------------------|------------------------------------|-------------------------------|
| LIST OF REFERENCES CITED BY APPLICANT  |    |  |          | APPLICANT<br>William M. CANFIELD |                             |                                    |                               |
|  |    |  |          | FILING DATE<br>Herewith          |                             | GROUP<br>1652                      |                               |
| <b>U.S. PATENT DOCUMENTS</b>   |    |  |          |                                  |                             |                                    |                               |
| EXAMINER<br>INITIAL  |    | DOCUMENT<br>NUMBER   | DATE     | NAME                             | CLASS                       | SUB<br>CLASS                       | FILING DATE<br>IF APPROPRIATE |
| J/S  | LA | 3,966,555  | 06/29/76 | ARNAUD ET AL                     | 435/208                     | 514/315                            |                               |
|  | LB | 3,957,578  | 05/18/76 | NARITA ET AL                     | 435/208                     | 514/315                            |                               |
|  | LC | RE35,770   | 04/14/98 | LORMEAU ET AL                    | 514/56                      | 435/358                            |                               |
|  | LD | 5,773,278  | 06/30/98 | SCHUCHMAN ET AL                  | 435/358                     | 514/315                            |                               |
|  | LE | 5,798,366  | 08/25/98 | PLATT ET AL                      | 514/315                     | 435/458                            |                               |
| J/S  | LF | 5,635,383  | 06/03/97 | WU ET AL                         | 435/458                     |                                    |                               |
|  | LG |  |          |                                  |                             |                                    |                               |
|  | LH |  |          |                                  |                             |                                    |                               |
|  | LI |  |          |                                  |                             |                                    |                               |
|  | LJ |  |          |                                  |                             |                                    |                               |
|  | LK |  |          |                                  |                             |                                    |                               |
|  | LL |  |          |                                  |                             |                                    |                               |
|  | LM |  |          |                                  |                             |                                    |                               |
|  | LN |  |          |                                  |                             |                                    |                               |
|  |    |  |          |                                  |                             |                                    |                               |
| <b>FOREIGN PATENT DOCUMENTS</b>  |    |  |          |                                  |                             |                                    |                               |
|  |    | DOCUMENT<br>NUMBER   | DATE     | COUNTRY                          | TRANSLATION<br>YES NO       |                                    |                               |
|  | LO |  |          |                                  |                             |                                    |                               |
|  | LP |  |          |                                  |                             |                                    |                               |
|  | LQ |  |          |                                  |                             |                                    |                               |
|  | LR |  |          |                                  |                             |                                    |                               |
|  | LS |  |          |                                  |                             |                                    |                               |
|  | LT |  |          |                                  |                             |                                    |                               |
|  | LU |  |          |                                  |                             |                                    |                               |
|  | LV |  |          |                                  |                             |                                    |                               |
| <b>OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)</b> |    |  |          |                                  |                             |                                    |                               |
|  | LW |  |          |                                  |                             |                                    |                               |
|  | LX |  |          |                                  |                             |                                    |                               |
|  | LY |  |          |                                  |                             |                                    |                               |
|  | LZ |  |          |                                  |                             |                                    |                               |
| Examiner<br>T. Saida   |    |  |          |                                  | Date Considered<br>12/10/04 |                                    |                               |

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| <b>U.S. PATENT DOCUMENTS</b>   |    |   |      |                                  |                             |                                    |                               |
| EXAMINER<br>INITIAL  |    | DOCUMENT<br>NUMBER  | DATE | NAME                             | CLASS                       | SUB<br>CLASS                       | FILING DATE<br>IF APPROPRIATE |
|  | MA |   |      |                                  |                             |                                    |                               |
|  | MB |   |      |                                  |                             |                                    |                               |
|  | MC |   |      |                                  |                             |                                    |                               |
|  | MD |   |      |                                  |                             |                                    |                               |
|  | ME |   |      |                                  |                             |                                    |                               |
|  | MF |   |      |                                  |                             |                                    |                               |
|  | MG |   |      |                                  |                             |                                    |                               |
|  | MH |   |      |                                  |                             |                                    |                               |
|  | MI |   |      |                                  |                             |                                    |                               |
|  | MJ |   |      |                                  |                             |                                    |                               |
|  | MK |   |      |                                  |                             |                                    |                               |
|  | ML |   |      |                                  |                             |                                    |                               |
|  | MM |   |      |                                  |                             |                                    |                               |
|  | MN |   |      |                                  |                             |                                    |                               |
| <b>FOREIGN PATENT DOCUMENTS</b>  |    |   |      |                                  |                             |                                    |                               |
|  |    | DOCUMENT<br>NUMBER  | DATE | COUNTRY                          | TRANSLATION<br>YES NO       |                                    |                               |
|  | MO |   |      |                                  |                             |                                    |                               |
|  | MP |   |      |                                  |                             |                                    |                               |
|  | MQ |   |      |                                  |                             |                                    |                               |
|  | MR |   |      |                                  |                             |                                    |                               |
|  | MS |   |      |                                  |                             |                                    |                               |
|  | MT |   |      |                                  |                             |                                    |                               |
|  | MU |   |      |                                  |                             |                                    |                               |
|  | MV |   |      |                                  |                             |                                    |                               |
| <b>OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)</b>   |    |   |      |                                  |                             |                                    |                               |
| J/K  | MW | KORNFELD, R. et al. "Molecular Cloning and Functional Expression of Two Splice Forms of Human N-Acetylglucosamine-1-phosphodiester alpha-N-Acetylglucosaminidase" J. Biol. Chem. 12, November 1999. Vol. 274, No. 46, pages 32778-32785 |      |                                  |                             |                                    |                               |
|  | MX | CUOZZO, J. W. et al. "Lysine is a Common Determinant for Mannose Phosphorylation of Lysosomal Proteins" J. Biol. Chem. 20. May 1994. Vol. 269. No. 20. Pages 14490-14496.   |      |                                  |                             |                                    |                               |
|  | MY | KORNFELD, S. "Trafficking of Lysosomal Enzymes in Normal and Disease States", J. Clin. Invest., Vol. 77, January 1986, pp. 1-6.   |      |                                  |                             |                                    |                               |
| O/P  | MZ | KORNFELD, S. "Lysosomal Enzyme Targeting", Biochemical Society Transactions, Jubilee Lecture Delivered on 19 December 1989, Vol. 18. pp. 367-374  |      |                                  |                             |                                    |                               |
| Examiner<br>T. Scudha  |    |   |      |                                  | Date Considered<br>12/10/04 |                                    |                               |
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| LIST OF REFERENCES CITED BY APPLICANT  |    |   |          | APPLICANT<br>William M. CANFIELD |  |  |                               |
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| U.S. PATENT DOCUMENTS  |    |   |          |                                  |  |  |                               |
| EXAMINER<br>INITIAL  |    | DOCUMENT<br>NUMBER  | DATE     | NAME                             | CLASS                                  | SUB<br>CLASS   | FILING DATE<br>IF APPROPRIATE |
|  | NA |   |          |                                  |  |  |                               |
|  | NB |   |          |                                  |  |  |                               |
|  | NC |   |          |                                  |  |  |                               |
|  | ND |   |          |                                  |  |  |                               |
|  | NE |   |          |                                  |  |  |                               |
|  | NF |   |          |                                  |  |  |                               |
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|  | NH |   |          |                                  |  |  |                               |
|  | NI |   |          |                                  |  |  |                               |
|  | NJ |   |          |                                  |  |  |                               |
|  | NK |   |          |                                  |  |  |                               |
|  | NL |   |          |                                  |  |  |                               |
|  | NM |   |          |                                  |  |  |                               |
|  | NN |   |          |                                  |  |  |                               |
| FOREIGN PATENT DOCUMENTS   |    |   |          |                                  |  |  |                               |
|  |    | DOCUMENT<br>NUMBER  | DATE     | COUNTRY                          | TRANSLATION<br>YES                  NO |  |                               |
|  | NO | 99/31117  | 06/24/99 | WIPO                             |  |  |                               |
|  | NP |   |          |                                  |  |  |                               |
|  | NQ |   |          |                                  |  |  |                               |
|  | NR |   |          |                                  |  |  |                               |
| OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)  |    |   |          |                                  |  |  |                               |
| Jg   | NT | Ke-Wei ZHAO, et al., "Purification and characterization of human lymphoblast N-acetylglucosamine-1-phosphotransferase", <i>Glycobiology</i> , Vol. 2, no. 2, pp. 119-125, 1992  |          |                                  |  |  |                               |
|  | NT | Takahiro NAGASE, et al., "Prediction of the Coding Sequences of Unidentified Human Genes. XV. The Complete Sequences of 100 New(cDNA Clones from Brain Which Code for Large Proteins <i>in vitro</i> ", <i>DNA Research</i> , Vol. 6, pp. 337-345, 1999   |          |                                  |  |  |                               |
|  | NU | XP-002226188, "KIAA1208 protein (Fragment)", From Takahiro NAGASE, et al., "Prediction of the Coding Sequences of Unidentified Human Genes. XV. The Complete Sequences of 100 New(cDNA Clones from Brain Which Code for Large Proteins <i>in vitro</i> ", <i>DNA Research</i> , Vol. 6, pp. 337-345, 1999 |          |                                  |  |  |                               |
| Jg   | NV | XP-002226187, "Basic domain/leucine zipper transcription factor (Fragment), From CORDES, et al., "The mouse segmentation gene <i>kr</i> encodes a novel basic domain-leucine zipper transcription factor" (1994), <i>Cell</i> , Vol. 7, No. 9, pp. 1025-1034  |          |                                  |  | <input type="checkbox"/> Additional References sheet(s) attached |                               |
| Examiner<br>T. Sridha  |    |   |          |                                  | Date Considered<br>12/10/04            |  |                               |
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| <b>U.S. PATENT DOCUMENTS</b>   |    |  |      |   |                                 |  |                               |
| EXAMINER<br>INITIAL  |    | DOCUMENT<br>NUMBER   | DATE | NAME                                    | CLASS                           | SUB<br>CLASS   | FILING DATE<br>IF APPROPRIATE |
|  | OA |  |      |   |                                 |  |                               |
|  | OB |  |      |   |                                 |  |                               |
|  | OC |  |      |   |                                 |  |                               |
|  | OD |  |      |   |                                 |  |                               |
|  | OE |  |      |   |                                 |  |                               |
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|  | OG |  |      |   |                                 |  |                               |
|  | OH |  |      |   |                                 |  |                               |
|  | OI |  |      |   |                                 |  |                               |
|  | OJ |  |      |   |                                 |  |                               |
|  | OK |  |      |   |                                 |  |                               |
|  | OL |  |      |   |                                 |  |                               |
|  | OM |  |      |   |                                 |  |                               |
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| <b>FOREIGN PATENT DOCUMENTS</b>  |    |  |      |   |                                 |  |                               |
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|  | OS |  |      |   |                                 |  |                               |
|  | OT |  |      |   |                                 |  |                               |
|  | OU |  |      |   |                                 |  |                               |
|  | OV |  |      |   |                                 |  |                               |
| <b>OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)</b> |    |  |      |   |                                 |  |                               |
| <i>TS</i>  | OW | Theodore PAGE, et al., "Purification and characterization of human lymphoblast N-acetylglucosamine-1-phosphodiester alpha-N-acetylglucosaminidase", Glycobiology, Vol. 6, no. 6, pp. 619-626, 1996 |      |   |                                 |  |                               |
| <i>TS</i>  | OX | Thomas J. BARANSKI, et al., "Lysosomal Enzyme Phosphorylation", The Journal of Biological Chemistry, Vol. 267, No. 32, Issue of November 15, pp. 23342-23348, 1992                                 |      |   |                                 |  |                               |
|  | OY |  |      |   |                                 |  |                               |
|  | OZ |  |      |   |                                 | <input type="checkbox"/> Additional References sheet(s) attached |                               |
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|---------------------|----|--------------------|------|------|-------|--------------|-------------------------------|
|                     | PA |                    |      |      |       |              |                               |
|                     | PB |                    |      |      |       |              |                               |
|                     | PC |                    |      |      |       |              |                               |
|                     | PD |                    |      |      |       |              |                               |
|                     | PE |                    |      |      |       |              |                               |
|                     | PF |                    |      |      |       |              |                               |
|                     | PG |                    |      |      |       |              |                               |
|                     | PH |                    |      |      |       |              |                               |
|                     | PI |                    |      |      |       |              |                               |
|                     | PJ |                    |      |      |       |              |                               |
|                     | PK |                    |      |      |       |              |                               |
|                     | PL |                    |      |      |       |              |                               |
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## FOREIGN PATENT DOCUMENTS

|  |    | DOCUMENT<br>NUMBER | DATE | COUNTRY | TRANSLATION |    |
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|  |    |                    |      |         | YES         | NO |
|  | PO |                    |      |         |             |    |
|  | PP |                    |      |         |             |    |
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|  | PR |                    |      |         |             |    |
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|  | PT |                    |      |         |             |    |
|  | PU |                    |      |         |             |    |
|  | PV |                    |      |         |             |    |

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

|    |    |   |
|----|----|---|
| JL | PW | Ritva TIKKANEN, et al., "Several cooperating binding sites mediate the interaction of a lysosomal enzyme with phosphotransferase", The EMBO Journal, vol. 16, No. 22, pp. 6684-6693, 1997   |
|    | PX | Fumito MATSUURA, et al., "Human alpha-galactosidase A: characterization of the N-linked oligosaccharides on the intracellular and secreted glycoforms overexpressed by Chinese hamster ovary cells", Glycobiology, vol. 8, no. 4, pp. 329-339, 1998 |
|    | PY | Shiroh MAGUCHI, et al., "Elevated Activity and Increased Mannose-6-phosphate in the Carbohydrate Moiety of Cathepsin D from Human Hepatoma", Cancer Research, Vol. 48, pp. 362-367, January 15, 1988  |
| JL | PZ | Norman W. Barton, et al., "Therapeutic response to intravenous infusions of glucocerebrosidase in a patient with Gaucher disease", Proc. Natl. Acad. Sci, USA, Vol. 87, pp. 1913-1916, March 1990   |

☐ Additional References sheet(s) attached

Examiner

T. Sreedha

Date Considered

12/10/04

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